

Title (en)

Process for producing lubricant base oil and lubricating oil composition

Title (de)

Verfahren zur Herstellung eines Schmiermittelbasisöls sowie Schmierölszusammensetzung

Title (fr)

Procédé de production de huile de base lubrifiante et composition d'huile lubrifiante

Publication

EP 2581437 B2 20190501 (EN)

Application

EP 13000091 A 20091007

Priority

- JP 2008261071 A 20081007
- JP 2008261077 A 20081007
- JP 2008261082 A 20081007
- EP 09819223 A 20091007
- JP 2009067504 W 20091007

Abstract (en)

[origin: EP2341122A1] A hydrocarbon-based lubricating base oil wherein a urea adduct value is not greater than 4 % by mass, a viscosity index is 100 or higher, an average of carbon atoms number is 23-31 as determined by gas chromatography distillation, a value obtained by dividing an integral value of a peak in 30 ppm by an integral value of total peaks in the range of from 0 ppm to 50 ppm for the ¹³C-NMR spectrum is 0.1-0.2, and a product of a value obtained by dividing an integral value of peaks attributed to tertiary carbon atoms by an integral value of total peaks in the range of from 0 ppm to 50 ppm for the ¹³C-NMR spectrum, and the average of carbon atoms number, is 1.8-2.5.

IPC 8 full level

C10M 171/00 (2006.01); **B01J 29/068** (2006.01); **C10G 45/58** (2006.01); **C10M 101/02** (2006.01); **C10N 10/04** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/00** (2006.01); **C10N 30/02** (2006.01)

CPC (source: EP US)

B01J 29/068 (2013.01 - EP US); **C10G 45/58** (2013.01 - EP US); **C10M 101/02** (2013.01 - EP US); **C10M 171/00** (2013.01 - EP US); **C10G 2300/20** (2013.01 - EP US); **C10G 2300/301** (2013.01 - EP US); **C10G 2300/302** (2013.01 - EP US); **C10G 2400/10** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2205/173** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2207/28** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/102** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/068** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2020/011** (2020.05 - EP US); **C10N 2020/013** (2020.05 - EP US); **C10N 2020/015** (2020.05 - EP US); **C10N 2020/017** (2020.05 - EP US); **C10N 2020/019** (2020.05 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2020/065** (2020.05 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/40** (2020.05 - EP US); **C10N 2030/43** (2020.05 - EP US); **C10N 2030/54** (2020.05 - EP US); **C10N 2030/74** (2020.05 - EP US); **C10N 2060/02** (2013.01 - EP US)

C-Set (source: EP US)

EP

1. **C10M 2219/068 + C10N 2010/12**
2. **C10M 2223/045 + C10N 2010/04**
3. **C10M 2207/262 + C10N 2010/04**
4. **C10M 2215/28 + C10N 2060/14**

US

1. **C10M 2215/28 + C10N 2060/14**
2. **C10M 2223/045 + C10N 2010/04**
3. **C10M 2219/068 + C10N 2010/12**
4. **C10M 2207/262 + C10N 2010/04**

Citation (opposition)

Opponent :

US 2008015400 A1 20080117 - MATSUI SHIGEKI [JP], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2341122 A1 20110706; **EP 2341122 A4 20120620**; **EP 2341122 B1 20160420**; **EP 2341122 B2 20190403**; CN 102239241 A 20111109; CN 102239241 B 20130918; EP 2581437 A1 20130417; EP 2581437 B1 20160427; EP 2581437 B2 20190501; SG 194403 A1 20131129; US 2011237477 A1 20110929; US 8648021 B2 20140211; WO 2010041689 A1 20100415

DOCDB simple family (application)

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